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1 [Experimental study of virtual machine migration in support of reserve](#)

[resources](#)

Ming Zhao, Renato J. Figueiredo

November 2007 **VTDC '07**: Proceedings of the 3rd international workshop on technology in distributed computing

Publisher: ACM

Full text available: [Pdf](#) (630.50 KB) [Additional Information: full citation, abstract, referenc](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 141, Citati

Virtual Machines are becoming increasingly valuable to resource consoli management, providing efficient and secure resource containers, along application execution environments. This paper focuses on the VM-base reservation ...

2 [Got predictability?: experiences with fault-tolerant middleware](#)

[Tudor Dumitras, Priya Narasimhan](#)

November 2007 **MC '07**: Proceedings of the 2007 ACM/IFIP/USENIX interna on Middleware companion

Publisher: ACM

Full text available: [Pdf](#) (3.53 MB) [Additional Information: full citation, abstract, referenc](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 58, Citati

Unpredictability in COTS-based systems often manifests as occasional ir uncontrollably-high response times. A particular category of COTS syste (FT) middleware, is used in critical enterprise and embedded applicatio

3 [RobuSTore: a distributed storage architecture with robust and high p](#)

[Huaxia Xia, Andrew A. Chien](#)

November 2007 **SC '07**: Proceedings of the 2007 ACM/IEEE conference on S

Publisher: ACM

Full text available: [Pdf](#) (1.20 MB) [Additional Information: full citation, abstract, referenc](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 66, Citation

Emerging large-scale scientific applications require to access large data and robust performance. We propose RobuSTore, a storage architecture erasure codes and speculative access mechanisms for parallel write and

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QoS mechanisms for the MAC protocol of IEEE 802.11 WLANs

José R. Gallardo, Paúl Medina, Weihua Zhuang

June 2007 **Wireless Networks**, Volume 13 Issue 3**Publisher:** Kluwer Academic PublishersFull text available:  Pdf (508.29 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 131, Citation

There are two essential ingredients in order for any telecommunications able to provide Quality-of-Service (QoS) guarantees: connection admission control and service differentiation. In wireless local area networks (WLANs), it is

Keywords: connection admission control, leaky-bucket constrained traffic access control, packet scheduling, quality of service, wireless local area

5 A utility-based unified disk scheduling framework for shared mixed-media Akshat Verma, Rohit Jain, Sugata GhosalFebruary 2008 **Transactions on Storage (TOS)**, Volume 3 Issue 4**Publisher:** ACM Full text available:  Pdf (2.18 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 117, Citation

We present a new disk scheduling framework to address the needs of a multimedia service that provides differentiated multilevel quality-of-service media workloads. In such a shared service, requests from different user classes have different ...


Keywords: GSP, Profit maximization, disk scheduling, shortest path

6 VSched: Mixing Batch And Interactive Virtual Machines Using Periodic Scheduling

Bin Lin, Peter A. Dinda

November 2005 **SC '05: Proceedings of the 2005 ACM/IEEE conference on Supercomputing****Publisher:** IEEE Computer SocietyFull text available:  Pdf (8.96 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 58, Citation

We are developing Virtuoso, a system for distributed computing using virtual machines (VMs). Virtuoso must be able to mix batch and interactive VMs on the same hardware, while satisfying constraint on responsiveness and compute time.

7 Analysis of integration models for service composition David Liu, Kincho H. Law, Gio WiederholdJuly 2002 **WOSP '02: Proceedings of the 3rd international workshop on Service performance****Publisher:** ACM Full text available:  Pdf (334.32 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 28, Citation


This paper studies service integration infrastructures that support the e-megaservices --- large-scale applications that are composed of autonomous modules. Integration infrastructures are classified according to their core

Keywords: FICAS, distributed data-flow, performance evaluation, service integration infrastructure

- 8 [Grid resource allocation: allocation mechanisms and utilisation patterns](#)
Stefan Krawczyk, Kris Buberndorfer

January 2008 **AusGrid '08: Proceedings of the sixth Australasian workshop on computing and e-research - Volume 82**, Volume 82

Publisher: Australian Computer Society, Inc.

Full text available:  Pdf (2.45 MB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 151, Citations

Grid systems have been put to remarkable use in recent years. Finding rendering multi-million dollar movies, and helping to understand diseases, the examples grid systems have been used for. With business turning to using ...

- 9 [Eliciting honest value information in a batch-queue environment](#)

Andrew Mutz, Rich Wolski, John Brevik

September 2007 **GRID '07: Proceedings of the 8th IEEE/ACM International Grid Computing**

Publisher: IEEE Computer Society

Full text available:  Pdf (922.83 KB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 10, Citations


Markets and auctions have been proposed as mechanisms for efficiently allocating resources in a number of different computational settings. Existing approaches to resource allocation in batch-controlled systems, however difficult ...

- 10 [Performance evaluation of routing protocols for ad hoc wireless networks](#)

Azzedine Boukerche

August 2004 **Mobile Networks and Applications**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  Pdf (237.28 KB) Additional Information: full citation, abstract, referer, terms

Bibliometrics: Downloads (6 Weeks): 41, Downloads (12 Months): 378, Citations

A mobile ad hoc network is a collection of autonomous mobile nodes that communicate with each other over wireless links. Such networks are expected to play an important role in future civilian and military settings, being useful for providing

Keywords: mobile ad hoc networks, performance evaluation, wireless networks

- 11 [Modeling optimistic concurrency using quantitative dependence analysis](#)



Christoph von Praun, Rajesh Bordawekar, Calin Cascaval

February 2008 **PPoPP '08**: Proceedings of the 13th ACM SIGPLAN Symposium and practice of parallel programming

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (435.38 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 260, Citation

This work presents a quantitative approach to analyze parallelization of programs with irregular memory access where potential data dependence available parallelism. The model captures data and causal dependencies

Keywords: available parallelism, dependence analysis, dependence of parallelism, optimistic concurrency, program parallelization, transaction

12 Race conditions in coexisting overlay networks

Ram Keralapura, Chen-Nee Chuah, Nina Taft, Gianluca Iannaccone

February 2008 **IEEE/ACM Transactions on Networking (TON)**, Volume 16

Publisher: IEEE Press

Full text available:  Pdf (1.94 MB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 171, Citation

By allowing end hosts to make independent routing decisions at the application layer, different overlay networks may unintentionally interfere with each other. This paper describes how multiple similar or dissimilar overlay networks could experience

Keywords: interaction between multiple overlay networks, race conditions, synchronization, traffic oscillations

13 Measurement-based admission control with aggregate traffic envelope

Jingyu Qiu, Edward W. Knightly

April 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 2


Publisher: IEEE Press

Full text available:  Pdf (200.91 KB) Additional Information: [full citation](#), [references](#), [other review](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 55, Citation

Keywords: admission control, quality of service, real-time flows, traffic

14 Bandwidth allocation in a self-managing multimedia file server

 Vijay Sundaram, Prashant Shenoy

October 2001 **MULTIMEDIA '01**: Proceedings of the ninth ACM international conference on Multimedia

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (299.16 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 19, Citation

In this paper, we argue that manageability of file servers is just as important as performance. We focus on the design of a self-managing file server to solve the specific problem of automating bandwidth allocation to application clients

Flexible and adaptive QoS control for distributed real-time and embedded middleware

Richard E. Schantz, Joseph P. Loyall, Craig Rodrigues, Douglas C. Schmidt, Krishnamurthy, Irfan Pyarali

June 2003 **Middleware '03**: Proceedings of the ACM/IFIP/USENIX 2003 International Conference on Middleware

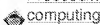
Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (369.14 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 25, Citation

Computing systems are increasingly distributed, real-time, and embedded must operate under highly unpredictable and changeable conditions. To predictable mission-critical quality of service (QoS) end-to-end, QoS-enabled services ...

16 Proceedings of the 2008 international workshop on Data-aware distributed computing



Tevfik Kosar

June 2008 **DADC '08**: Proceedings of the 2008 international workshop on Data-aware distributed computing

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

I am pleased to welcome everybody to the International Workshop on Data-aware Distributed Computing (DADC 2008), which is held in conjunction with the Symposium on High Performance Distributed Computing (HPDC 2008). scientific ...

17 Resynchronization and controllability of bursty service requests

Hani Jamjoom, Padmanabhan Pillai, Kang G. Shin

August 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 5

Publisher: IEEE Press

Full text available:  Pdf (980.39 KB) Additional Information: [full citation](#), [abstract](#), [referer](#), [terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 29, Citation

There is an increasing prevalence of interactive Web sessions in the Internet mostly short-lived TCP connections that are delay-sensitive and have to be dominated by TCP backoffs, if any, during connection establishment. Ur

Keywords: TCP performance, traffic characterization, traffic control

18 A job scheduling framework for large computing farms



Gabriele Capannini, Ranieri Baraglia, Diego Puppini, Laura Ricci, Marco Pasca

November 2007 **SC '07**: Proceedings of the 2007 ACM/IEEE conference on Supercomputing

Publisher: ACM


Full text available:  Pdf (326.25 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 111, Citation

In this paper, we propose a new method, called Convergent Scheduling, continuous stream of batch jobs on the machines of large-scale compute method exploits a set of heuristics that guide the scheduler in making d

Keywords: computing farm, deadline scheduling, job scheduling, softw scheduling

- 19 [Enforcing cooperative resource sharing in untrusted P2P computing](#)
Zhengqiang Liang, Weisong Shi
December 2005 **Mobile Networks and Applications** , Volume 10 Issue 6
Publisher: Kluwer Academic Publishers

Full text available:  [Pdf](#) (436.36 KB) Additional Information: [full citation](#), [abstract](#), [referen](#)
[terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 96, Citation

Peer-to-Peer (P2P) computing is widely recognized as a promising parac next generation distributed applications. However, the autonomous, het decentralized nature of participating peers introduces the following chal

Keywords: P2P, cooperative, economic model, heterogeneous, resourc model, untrusted environment

- 20 [VGE - A Service-Oriented Grid Environment for On-Demand Superc](#)
Siegfried Benkner, Ivona Brandic, Gerhard Engelbrecht, Rainer Schmidt
November 2004 **GRID '04: Proceedings of the 5th IEEE/ACM International **
Computing

Publisher: IEEE Computer Society
Full text available:  [Pdf](#) (132.43 KB) Additional Information: [full citation](#), [abstract](#), [referen](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 25, Citation

In this paper, we present the Vienna Grid Environment, a service-orient infrastructure based on standard Web Services technologies. VGE auton provision of HPC applications as Grid services for on-demand supercom simplifies the ...

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